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# American Journal of Physiology: Cell Physiology

No. 1, JANUARY 1993

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**ANNOUNCEMENT**

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**CORRIGENDA***Volume 263, July 1992**Volume 32, July 1992*

*Pages C116 and C118:* Å. Sjöholm. "Differential effects of cytokines on long-term mitogenic and secretory responses of fetal rat pancreatic  $\beta$ -cells." Page C116, Table 1, the units for [Glucose] should read mM, and page C118, Table 3, the units for [IFN- $\gamma$ ] should read U/ml, as shown in the corrected tables. (The errors were inadvertently introduced by the printer at the final stage of proof.)

**Table 1. Effects of glucose, GH, and IL-1 $\beta$  on islet DNA synthesis and insulin secretion**

Islet Culture			DNA Synthesis, cpm/50 islets	Insulin Secretion, ng/50 islets per ml $\times$ 24 h
[Glucose], mM	[IL-1 $\beta$ ], U/ml	[GH], $\mu\text{g}/\text{ml}$		
11.1			992 $\pm$ 131	571 $\pm$ 73
11.1	2.5		755 $\pm$ 184	191 $\pm$ 35 <sup>b</sup>
11.1	12.5		964 $\pm$ 318	266 $\pm$ 24 <sup>b</sup>
11.1	25		1,788 $\pm$ 211 <sup>b</sup>	307 $\pm$ 29 <sup>a</sup>
3.3			414 $\pm$ 112	182 $\pm$ 48
16.7			1,198 $\pm$ 234 <sup>c</sup>	756 $\pm$ 85 <sup>c</sup>
16.7	25		2,024 $\pm$ 311 <sup>c,d</sup>	421 $\pm$ 53 <sup>c,e</sup>
11.1			1,019 $\pm$ 164	608 $\pm$ 88
11.1		1	2,430 $\pm$ 255 <sup>d</sup>	948 $\pm$ 81 <sup>d</sup>
11.1	25	1	3,075 $\pm$ 183 <sup>d,f</sup>	233 $\pm$ 22 <sup>d,f</sup>

Values are means  $\pm$  SE for 6–8 experiments. Islets were cultured free floating for 3 days in medium RPMI 1640 containing 1% fetal calf serum and supplemented as indicated. DNA synthesis rates were determined by measuring incorporation of [ $^3\text{H}$ ]thymidine into DNA. Insulin secretion into culture medium during the final 24 h of culture was determined radioimmuno logically. <sup>a</sup>  $P < 0.05$  and, <sup>b</sup>  $P < 0.01$  for chance differences vs. 11.1 mM glucose without interleukin-1 $\beta$  (IL-1 $\beta$ ) using Student's paired  $t$  test; <sup>c</sup> vs. 3.3 mM glucose, <sup>d</sup> vs. 11.1 mM glucose, <sup>e</sup> vs. 16.7 mM glucose, and <sup>f</sup> vs. growth hormone (GH) denote 95% multicomparison significance level using one-way factorial ANOVA.

**Table 3. Effects of glucose, GH, and IFN- $\gamma$  on islet DNA synthesis and insulin secretion**

Islet Culture			DNA Synthesis, cpm/50 islets	Insulin Secretion, ng/50 islets per ml $\times$ 24 h
[Glucose], mM	[IFN- $\gamma$ ], U/ml	[GH], $\mu\text{g}/\text{ml}$		
11.1			742 $\pm$ 85	455 $\pm$ 59
11.1	10		816 $\pm$ 178	443 $\pm$ 68
11.1	100		758 $\pm$ 67	262 $\pm$ 29 <sup>a</sup>
11.1	1,000		961 $\pm$ 79 <sup>a</sup>	238 $\pm$ 21 <sup>a</sup>
		3.3	322 $\pm$ 41	136 $\pm$ 36
		16.7	812 $\pm$ 92 <sup>b</sup>	587 $\pm$ 61 <sup>b</sup>
		1,000	897 $\pm$ 68 <sup>b</sup>	409 $\pm$ 29 <sup>b,d</sup>
		11.1	713 $\pm$ 88	472 $\pm$ 51
		1	1,811 $\pm$ 191 <sup>c</sup>	836 $\pm$ 69 <sup>c</sup>
		11.1	1,914 $\pm$ 201 <sup>c</sup>	414 $\pm$ 58 <sup>c</sup>

Values are means  $\pm$  SE for 6–8 experiments. Islets were cultured for 3 days as indicated. During final 5 h of culture, 1  $\mu\text{Ci}/\text{ml}$  [ $^3\text{H}$ ]thymidine was present in culture media, and DNA synthesis rates were determined by measuring radioactivity incorporated into trichloroacetic acid-precipitable material. Insulin secretion into culture medium during final 24 h of culture was determined radioimmuno logically. <sup>a</sup>  $P < 0.05$  for chance differences vs. 11.1 mM glucose without interferon- $\gamma$  (IFN- $\gamma$ ) using Student's paired  $t$  test; <sup>b</sup> vs. 3.3 mM glucose; <sup>c</sup> vs. 11.1 mM glucose; <sup>d</sup> vs. 16.7 mM glucose, and <sup>e</sup> vs. GH denote 95% multicomparison significance level using one-way factorial ANOVA.